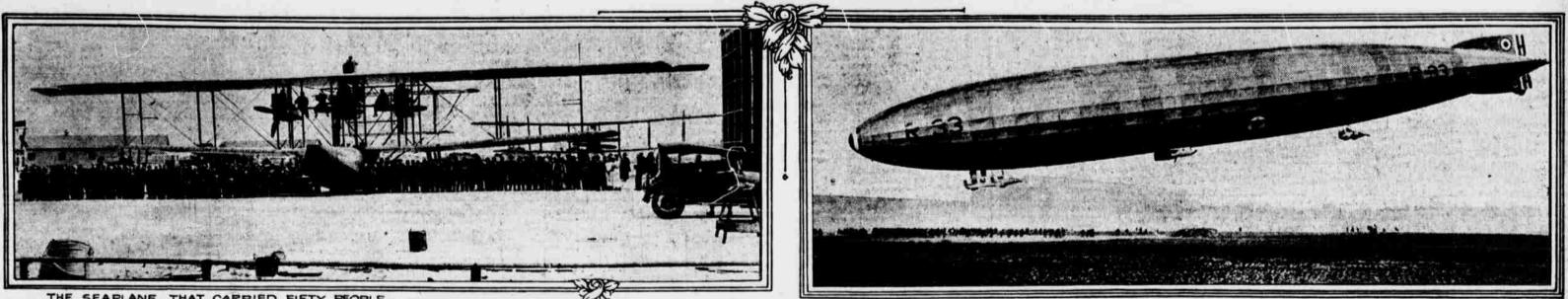
SECTION 6

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TWELVE PAGES

# ATLANTIC FLIGHT LIKELY WITHIN 90 DAYS



THE SEAPLANE THAT CARRIED FIFTY PEOPLE RECENTLY.

Air Experts All Over the World at Work on Plans and Huge Planes Will Soon Be Winging Over the Sea—Three Contestants Expected to Use Liberty Motors in Effort

by ERNEST E. HARMON,

1st LCeutenant, U. S. Air Service. ready on. It began on the day atlantic flight. It is, of course, a when the armistice was signed bring- lighter than air machine. Should it ing hostilities to a close in Europe, cross the Atlantic the real flight con-The transatlantic flight would have chines which actually fly and do not been made before this time but for the outbreak of the war, which drew the attention of aeronautic experts to the attention of aeronautic experts to the interest of filers the world over stern and immediate business of scout- is centred. ing and bombing and fighting over the contending armies.

I should say and I speak from information as well as from deduction—that four planes built especially for done. The planes I mean are the one our nayy is building at the Philadelphia navy yard, the British super Handley-Page machine, the Caproni, which is being built

that Caproni in Italy is seriously considering the abandonment of the Fiat for the Liberty motor. The British have already adopted the Liberty other planes I have mentioned.

The seaplane which our navy experts are constructing will have a wing spread of 250 feet, and the British super Handley-Page has five Liberty motors to develop 1.000 horse-power. ing a machine especially for the transtion had been rushed and that it was not far from completion. Therefore I should, perhaps, add one more to the list of four planes which are likely to begin tuning up for the cross

The Glenn Martin machine is being built at Cleveland, Ohio. It will have two motors (Liberty). Additional interest is given to Mr. Martin's announcement, since it means that our army as well as our navy will be in the transatlantic competition. doubtedly the Glenn Martin flight will be under army direction.

ocean trip within thirty days.

# \$110,000 in Prizes.

The flight from continent to con soon-I should say, possibly, within ninety days. There may be failures first, and some ambitions for a place in history may vanish tragically in an that are being prepared in secret-

is the British super Handley-Page. The British have a dirigible-a balloon HE contest for the one great fly-has already been given trials to detering record of the world is al- mine its probable success in a trans-

that four planes built especially for the transatiantic flight will have their trial trins within there days 10 of carrying enough weight in the trial trips within thirty days. It's shape of crew and supplies is the main a race among the builders to get them factor. Caproni was the first man to experiment with the heavy-weight-carrying ship, and for a while he had undisputed sway in that field.

The new super Caproni must be very nearly finished. Photographs have I am to pilot that is now being assem-bled at Langley Field, Hampton bled at Langley Field, Hampton | luxe and other features. How many according to the heastlements from motors it is to have and what wing point to point of the solid ground. Roads, Va.

Perhaps the critics of our hasty | spread, however, are detailed that are | Your ship may be flying sixty miles | an hour against the wind and be simachievements in preparation for the war will allow us some little credit as engine builders after the flight is accomplished. All but one of the planes will have Liberty motors, and perhaps all of them will. I have been informed flight from west to east.

# New Idea in Aircraft.

motor for the super Handley-Page, that the plane which I am to pilot ress over the ground was at the rate Capt. Hugo Sundstedt, the Swedish will have a good chance to win the of two and three-qua-ters miles a aviator, also has Liberty motors in cross ocean prize. If it meets the ex- minute. Yet my speed register showed his plane. It is possible that he may pectations of its designer. Mr. Herr- nothing like that, I had a stiff halfattempt or even accomplish a transat- man, the Atlantic flight will be an gale at my back practically all of the lantic flight, but I do not put him easy thing. It should be able to fly way. The prevalent winds at most down in the list of high possibilities. twice the distance without stop. It seasons of the year favor a flight from He has a biplane with a hundred-foot is now being assembled at Langley America to Europe. Observation dewing spread and two motors capable Field and will be ready for trial within termined long ago that the surface of developing a total of 400 horse-power, but it doesn't class with the according to an entirely new idea and west to east across the Atlantic. I getting it into satisfactory working that a steady surface wind means a it has seven sustaining surfaces. These and the higher you go the stronger motors-three tractors and two pushextreme wing spread, in the centre be quite possible to start on the cross-

There can be very little difference ance that the wind will help. in the plans of the various contenders for the cross ocean prize. Crews will be composed of five, six or possiserve pilot.

A landing on the island of Newocean waste, but that will not deter plies and making the trial trip across others from going on, because, as any as short as possible. But in theory.

wo, at least, under normally favorable of the flight. I should say, rather,

The Italians may be depended upon to produce a machine which will fly across the Atlantic and no doubt they

Naturally, I am inclined to believe point speed record, my average progvaluable time may be consumed in have found in most of my experience order. It is called a multiplane, and wind in the same direction higher up, are arranged, you might say, in ranks, it is, There are a pair of planes in front. The only way to determine the fathree abreast in the middle and two vorable time for the beginning of the in the rear. The planes are so ar- transatiantic flight is to have the ranged that the wind streams from big plane ready to start and then have each section will not interfere with a number of exploring planes reportthe lifting power of the other sections. ing on the direction and strength of The machine will have five Liberty the currents at various altitudes. sustain flight; three certainly. The must be had. Thus, I believe, it will

conditions ought to be able to fly that only phenomenally unfavorable down from 10,000 feet, to a spot near



explanation of the tremendous importance of a favorable wind.

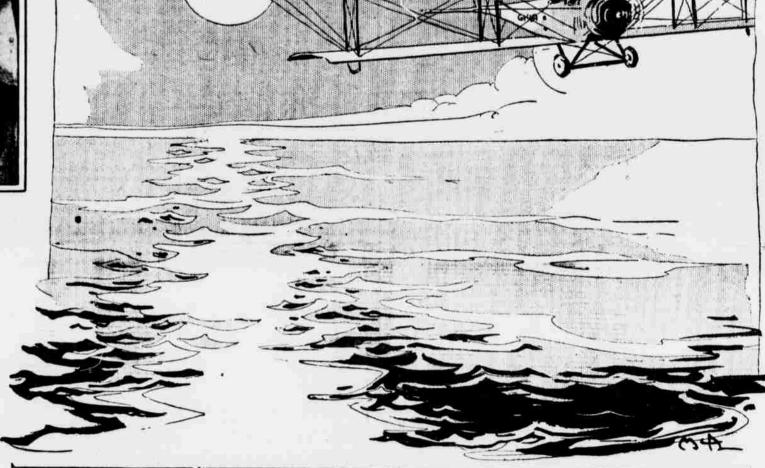
an aeroplane leaves the earth it enters

point. In the flight from Washington o New York, in which I was fortunate enough to establish a point to

That's the plan which we shall follow Two engines will, it is believed. The advice of meterological experts ocean flight with a reasonable assur-

# Clouds as a Factor.

Next in importance—the clouds, bly seven men. There will be a navi- The flight must be begun when the sator, a pilot, one or two reserve pi- i clouds are high and cloud vapor is not ots, two mechanicians and a radio drifting in great volumes. Of course operator. Our multiplane will have the weather men can find out pretty a crew of seven, but we shall have well about that. Only by radio comtinent across the Atlantic will be made three mechanicians and only one re- munication with ships will it be possible for the flier to know that his position is. It will be necessary for foundland would undoubtedly be made several reasons for the plane to fly at for the purpose of taking on final sup- an altitude of about 10,000 feet. With heavy cloud layers below that the surface of the ocean would not be visible





OFFICERS of the NAVY WHO HAVE BEEN ASSIGNED to the PREPARATIONS for the FLIGHT LEFT to RIGHT. COMMANDER J.H. TOWERS U.S.N. 17 CHARGE. COMMANDER H.C. RICHARDSON, LT. COMMANDER P.N. L. BELLINGER, MAJOR B.L. SMITH, LT COMMANDER G. de C. CHEVALIER, LT. COMMANDER R.E BYRD, LT. BARRAT U.S.

experienced flier can tell you, to fly and very likely in practice, within a gross the Atlantic is a cinch—if nothing goes wrong. Among the six mathematical street with the beginning of the voyage and and probably make effective repairs of chines built or building which we know chines and built or building which we know chines built or building which we know chines built or building which we know chines and the standard or clear sight at beits, could get out to a stopped motor with blankets and cushions for can and will carry enough fuel for is still the quickest and most adaptable useless.

Considering the number of ships now difficulty such as ignition and food sufficient for three meals. There's no use making plans for a loss of all the fuel should a tank.

peller and cause vibration which ruins across the Atlantic. So, to accomplish altitude where it is bound to be cold the engine in no time at al.

Thus in a different bour flight with planting about 10 pounds.

The matter of supplies for the trip plane are calculated to sustain flight as big. No machine with such a wing unfamiliar with the practical conditions of aviation 1 must attempt an solution of aviation 1 must attempt an solution of aviation 2 more fleat on the engine in no time at al.

Thus in a different bour flight with plants about 10 pounds.

The matter of supplies for the trip planes are calculated to sustain flight its hardly worth consideration. In the six tons of fuel would be consumed an American will accomplish the feat. It will be advisable to start at about the regine in no time at al.

The matter of supplies of the engine in no time at al.

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Weather conditions will have everything to do with the success or failure
of the flight. I should say, rather,
that only phenomenally unfavorable
of the flight of the f

TYPE of BRITISH
DIRIGIBLE that MAY
ATTEMPT the FLIGHT.

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Flier Who Will Pilot a Multiplane Expects to Make a Record-Much Depends on the Weather and a Favoring Wind Is Biggest Factor in Trial

the flight strike me as enterprising, but unscientific. At best they will prove if successful that you can fly across the ocean when unexampled good fortune gives results that can only be counted as a happy accident. They will prove that you can fly until your motor stops or your gas doesn't stop or your gas run out while you are flying over the ocean you can fly from America to Europe. That isn't much to prove. Everybody known that now.

ent in conception. They are all based upon the principle of motor plurality. That is, our planes bull: for the trip will all be able to continue flight after one or even two motors have stopped. Our calculations include and absorb the ordinary disadvantages of We are not going to prove that you can possibly do it if you are lucky, but that you can surely do it whenever you wish if you are not unlucky. We propose to establish the beginning of a series of experiments which may reasonably proceed to the demonstrais no more hazardous than transatlanwater navigation.

Ever since the carry days when the soneers, the Wrights and Langley. experimented with gliders efforts have een toward the adaptation of air flight to practical use. Experimentation was given a tremendous impulse when the world war droke out. Emcient and capable air craft became, instead of curious toys and exhibition freaks, the desirable things that might save nations and make history. The demand at first was for a ship for reconnaissance purposes only. Nobody thought of fighting in the air or frest the air. What was wanted was something that would just stay affoat, sufficiently under control to permit the pilot to observe what was beneath him on the earth and report on it when he sot back to his base. Then when the idea of the fighting plane was primarily introduced by the scouts who fired at enemy scouts with revolvers and rifles the engineers developed the swift moving, rapid climbing combat ships. Next came the demonstration of the value in warfate of the bomb dropped with something like necuracy from the air and the engineers responded with the giant bors ers of the present time, machines which could carry great weight and make a steady, certain course, even bearing armament for de-

# American Engineers' Work.

Too much cannot be said for the American engineers who have set out to meet all these demands. They have two, at least, under normally favorable conditions ought to be able to fly penomenally unfavorable of the flight. I should say, rather, look his motion power entirely, to gilde conditions ought to be able to fly penomenally unfavorable which carried that only phenomenally unfavorable without landing. That feat may further the exist of the aviators make a great a leak, of course, will be at the conditions for a content in risk the conditions for a content in risk the conditions for a content in the aviators make a great of at away. Some one is go-line, the plane make a ferror of first the plane make a pear not far away. Some one is go-line, the first is of the said of time would be fall. The ends of the propellor blades of the bast of an aggregate of about the plane of an aggregate of about the plane of an aggregate of about the plane of our naxy fly; and in the plane which is being built according to the plane of our naxy fly; and in the plane which is being until according to the plane of our naxy fly; and in the plane which is being until according to the plane of our naxy fly; and is simply the beas model in the remarkable of the world are configurately wind the simply the beas model in the remarkable of the world are configurated that the plane of the plane of our naxy fly; and is simply the beas model in the remarkable of the world are configurated that their expellance with a wing spread of the remarkable of the plane of our naxy fly; and is simply the beas model in the remarkable of the world are configurated that their expellance with a wing spread of the remarkable of the plane of our naxy fly; and is simply the beas model in the remarkable of the world are configurated that their their their seaplane with a wing spread of the remarkable of the plane of our naxy fly; and is simply the beas model in the remarkable of the plane of our naxy fly; and is simply the beas model in the remarkable of the world are configurated the result of the start of the world are configurated to the configuration of the pla